

ABSTRACT OF THE DISCLOSURE

The present invention is directed to a controlled environment processing chamber or chambers in which parts are to be dried. The parts either contain water on or imbibed into the part. The process includes a means of applying a negative gauge pressure to the chamber to remove air or other non-condensable gases. Further, means are provided for introducing a solvent in a vapor state to the chamber to cause the water to flash off of the part. A first system recovers water or aqueous solution(s) from the object being dried and the chamber. A second system, separate from the first system, further recovers residual solvent from the object and chamber after the drying process.